

2024 Report of the Statewide Advisory Committee on Cooling Water Intake Structures (SACCWIS)

Inter-Agency Working Group

March 11, 2024

Purpose and Overview



- The SACCWIS advises the State Water Resources Control Board (State Water Board) on the implementation of the Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling (“Once-Through Cooling” or “OTC Policy”) compliance schedule to ensure grid reliability.
- The purpose of this meeting is to consider approving the Draft 2024 Report of the SACCWIS (Draft SACCWIS Report), which does not presently recommend any compliance date extensions.

Draft SACCWIS Report

- Status of OTC Policy compliance and water use
- Grid resource and infrastructure planning updates
- Air and water regulatory and permitting considerations
- Recommendations and next steps

OTC Policy Compliance Schedule Status

- Applied to 19 power plants:
 - 12 in full compliance
 - 7 on track to achieve full compliance

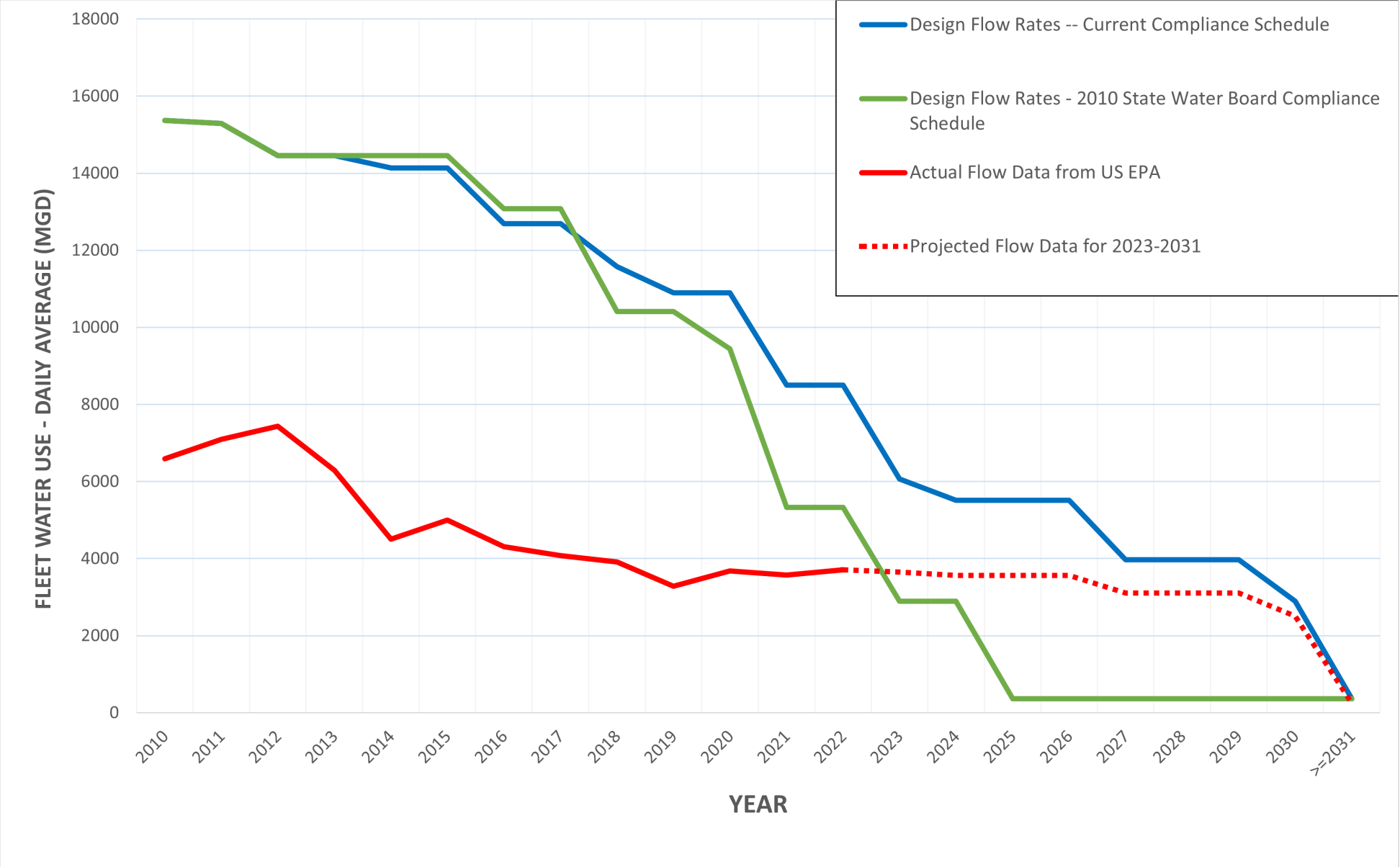


2023 Amendment to the OTC Policy

- In August 2023, the State Water Board:
 - Extended the compliance dates of Alamosa, Huntington Beach, and Ormond Beach generating stations through December 21, 2026
 - To address statewide grid reliability needs during extreme weather
 - Extended the compliance date of Scattergood Generating Station through December 31, 2029
 - To address local area reliability needs while transitioning to a carbon-free grid
 - Revised the compliance date of Diablo Canyon Nuclear Power Plant to October 31, 2030
 - Administrative change without regulatory effect based on Senate Bill 846



Historic and Projected Water Use by the OTC Fleet



Regulatory Considerations Summary – Water Quality

Facility and Units	Waste Discharge Order	OTC Intake Location	OTC Discharge Location	Design Flow (Million Gallons/Day)
Alamitos Units 3, 4, 5	R4-2020-0134	Canal connected to Los Cerritos Channel Estuary	San Gabriel River Estuary	1,066
Diablo Canyon Units 1, 2	R3-1990-0009	Diablo Canyon intake cove	Diablo Cove	2,528
Harbor Unit 5	R4-2003-0101	Los Angeles Harbor	Los Angeles Harbor West Basin	108
Haynes Units 1, 2, 8	2000-081 and R4-2004-0089	Long Beach Marina	San Gabriel River	968
Huntington Beach Unit 2	R8-2020-0040	Pacific Ocean	Pacific Ocean	514
Ormond Beach Units 1, 2	R4-2020-0132	Pacific Ocean	Pacific Ocean	685
Scattergood Units 1, 2	R4-2016-0055	Santa Monica Bay	Pacific Ocean	495

Air Regulatory Summary

- CARB coordinates with air districts to identify requirements related to permitting and current/future rule development that could impact OTC unit operation
- Permitting
 - Each operating OTC facility has a current Title V permit and units may continue operating in accordance with their permits and any future applicable regulatory requirements
 - For operation through OTC Policy compliance dates, permit renewals will be needed for Ormond Beach (in process), Alamitos, Scattergood, Harbor, and Haynes generating stations
- Compliance
 - Based on information available through December 2023, facilities are in compliance with applicable rules and regulations
- Rulemaking
 - South Coast Air Quality Management District Rules 1135 and 429.2 allow limited-term/limited-scope exemptions for OTC units that will retire by 2029 – the exemption does not apply if an OTC system is removed to comply with the OTC Policy but the existing generating unit continues operating
 - Future projects involving modifications to existing OTC units or installation of new emissions units will need to go through applicable permit application, public noticing, and review processes by the local air district and U.S. EPA

Procurement Status

- The California Public Utilities Commission (CPUC) authorized additional procurement to address system reliability needs and these procurement efforts are being closely monitored:
 - Cumulatively, approximately 7,700 MW of September Net Qualifying Capacity (NQC) resources have been added between January 2020 and August 2023*
 - Largely because of the CPUC's procurement orders, an estimated 10,398 MW and 11,030 MW of cumulative new September NQC are expected by Q4 2025 and Q4 2026, respectively*
- Procurement milestones (Tables 4-7) have been added to the Draft Report in response to the request of SWRCB members during the August 15, 2023, meeting
- The energy agencies continue to monitor the progress of new resource development

*Joint Agency Reliability Planning Assessment, SB 846 Report of December 2023, CEC-200-2023-015



Upcoming First Quarter Joint Agency Reliability Planning Assessment

- **Address SB 846, AB 1020, and AB 1373 Requirements**
 - **Summer 2023 Reliability Recap** (overlap of SB 846 and AB 1020)
 - Recap of Summer 2023 Events
 - Preparation for Summer 2024
 - **Demand Forecast Update**
 - **Supply Forecast Update**
 - **Tracking Project Development Update**
 - **Reliability 2024 and 5- and 10-year projections**
 - **Recommendations**
- **Report will be available on the CEC's website under Docket 21-ESR-01 - Resource Planning and Reliability at: [California Energy Commission : Docket Log](#)**

Conclusion

- Despite progress in deployment of new, clean generation, the grid remains susceptible to a combination of risks including development delays for authorized procurement of new resources, extreme events such as widespread heat, and coincident extreme events
- SACCWIS continues to monitor procurement, new development and statewide grid reliability, and does not recommend changes to the compliance schedules in the OTC Policy at this time

A wide-angle photograph of a deep blue ocean with small, choppy waves. The horizon is visible in the distance under a grey, overcast sky. The word "Questions?" is centered in the middle of the image in a white, sans-serif font.

Questions?